

PART 70

SIGNIFICANT SOURCE MODIFICATION

**Indiana Department of Environmental Management
Office of Air Quality**

and

**Hammond Department of Environmental Management
Air Pollution Control Division**

**Cerestar USA, Inc.
1100 Indianapolis Boulevard
Hammond, Indiana 46320-1094**

(herein known as the Permittee) is hereby authorized to construct and operate subject to the conditions contained herein, the emission units described in Section A (Source Summary) of this approval.

This approval is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Source Modification No.: 089-14389-00203	
Issued by:	Issuance Date: September XX, 2001
Ronald L. Novak, Director Hammond Department of Environmental Management	

TABLE OF CONTENTS

A	SOURCE SUMMARY	3
A.1	General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]	
A.2	Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)]	
A.3	Part 70 Permit Applicability [326 IAC 2-7-2]	
B	GENERAL CONSTRUCTION CONDITIONS	5
B.1	Permit No Defense [IC 13]	
B.2	Definitions [326 IAC 2-7-1]	
B.3	Effective Date of the Permit [IC13-15-5-3]	
B.4	Revocation of Permits [326 IAC 2-1.1-9(5)][326 IAC 2-7-10.5(i)]	
B.5	Significant Source Modification [326 IAC 2-7-10.5(h)]	
C	GENERAL OPERATION CONDITIONS	7
C.1	Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]	
C.2	Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)]	
C.3	Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]	
C.4	Opacity [326 IAC 5-1]	
C.5	Operation of Equipment [326 IAC 2-7-6(6)]	
C.6	Stack Height [326 IAC 1-7]	
C.7	Performance Testing [326 IAC 3-6][326 IAC 2-1.1-11]	
C.8	Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]	
C.9	Pressure Gauge Specifications	
C.10	Compliance Monitoring Plan - Failure to Take Response Steps	
C.11	Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5]	
C.12	Monitoring Data Availability [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)]	
C.13	General Record Keeping Requirements [326 IAC 2-7-5(3)]	
C.14	General Reporting Requirements [326 IAC 2-7-5(3)(C)]	
D.1	FACILITY OPERATION CONDITIONS – Grind Expansion Project	14
	Certification	17

SECTION A SOURCE SUMMARY

This approval is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) and the Hammond Department of Environmental Management (HDEM). The information describing the emission units contained in conditions A.1 through A.2 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this approval pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

The Permittee owns and operates a Wet Corn Milling Facility

Responsible Official: Robert H. Marshall
Source Address: 1100 Indianapolis Boulevard, Hammond, Indiana 46320-1094
Mailing Address: 1100 Indianapolis Boulevard, Hammond, Indiana 46320-1094
Phone Number: (219) 473-5899
SIC Code: 2046 – Wet Corn Milling
County Location: Lake
County Status: Nonattainment for PM₁₀, Ozone, and SO₂
Attainment for all other criteria pollutants
Source Status: Part 70 Permit Program
Major under PSD or Emission Offset Rules;
Major Source, Section 112 of the Clean Air Act

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary source is approved to construct and operate the following emission units and pollution control devices:

Additions to Grind and Feedhouse Area:

- (a) Gluten Ring Dryer, identified as 202-01-G, with a heat input capacity of 40 mmBtu/hr and a corn gluten raw material input of 140,000 lbs/hr using low NOx burners and a wet scrubber CE202-01-G for particulate control and exhausting to stack S202-01-G.
- (b) Fluid Bed Germ Dryer, identified as 203-01-G, with a heat input capacity of 50 mmBtu/hr and a corn germ raw material input of 60,000 lbs/hr using low NOx burners and a cyclone as control and exhausting to stack S203-01-G.
- (c) Hammermill Aspiration Dust Collector #1, identified as 201-01-G, with a maximum design rate of 40,000 lbs/hr using a dust collector CE201-01-G for particulate control and exhausting to stack S201-01-G.
- (d) Hammermill Aspiration Dust Collector #2, identified as 201-02-G, with a maximum design rate of 40,000 lbs/hr using a dust collector CE201-02-G for particulate control and exhausting to stack S201-02-G.
- (e) Loose Feed Bin Vent, identified as 201-03-G, with a maximum rate of 90,000 lbs/hr using a bin vent CE201-03-G for particulate control and exhausting to stack S201-03-G.
- (f) Pellet Cooler Exhaust Cyclone #1, identified as 201-04-G, with a maximum design rate of 60,000 lbs/hr using a cyclone CE201-04-G for particulate control and exhausting to stack S201-04-G.

- (g) Pellet Cooler Exhaust Cyclone #2, identified as 201-05-G, with a maximum design rate of 60,000 lbs/hr using a cyclone CE201-05-G for particulate control and exhausting to stack S201-05-G.
- (h) Germ Silo Filter, identified as 200-01-G, with a maximum rate of 30,000 lbs/hr using a dust collector CE200-01-G for particulate control and exhausting to stack S200-01-G.
- (i) Gluten Silo Filter, identified as 200-02-G, with a maximum rate of 21,000 lbs/hr using a dust collector CE200-02-G for particulate control and exhausting to stack S200-02-G.
- (j) Loose Feed Silo Filter, identified as 200-03-G, with a maximum design rate of 11,000 lbs/hr using a dust collector CE200-03-G for particulate control and exhausting to stack S200-03-G.
- (k) Pellet Silo #1 Filter, identified as 200-04-G, with a maximum rate of 80,000 lbs/hr using a dust collector CE200-04-G for particulate control and exhausting to stack S200-04-G.
- (l) Pellet Silo #2 Filter, identified as 200-05-G, with a maximum rate of 80,000 lbs/hr using a dust collector CE200-05-G for particulate control and exhausting to stack S200-05-G.
- (m) Loadout Dust Collector, identified as 200-06-G, with a maximum design rate of 420,000 lbs/hr using a dust collector CE200-06-G for particulate control and exhausting to stack S200-06-G.
- (n) Central Vacuum Pelletizing, identified as 201-06-G, with a maximum design rate of 100 lbs/hr using a dust collector CE201-06-G for particulate control and exhausting to stack S201-06-G.
- (o) Central Vacuum Loadout, identified as 200-07-G, with a maximum design rate of 100 lbs/hr using a dust collector CE200-07-G for particulate control and exhausting to stack S200-07-G.

A.3 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because it is a major source, as defined in 326 IAC 2-7-1(22);

SECTION B GENERAL CONSTRUCTION CONDITIONS

B.1 Permit No Defense [IC 13]

This approval to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

B.2 Definitions [326 IAC 2-7-1]

Terms in this approval shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, any applicable definitions found in IC 13-11, 326 IAC 1-2 and 326 IAC 2-7 shall prevail.

B.3 Effective Date of the Permit [IC13-15-5-3]

Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.

B.4 Revocation of Permits [326 IAC 2-1.1-9(5)][326 IAC 2-7-10.5(i)]

Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

B.5 Significant Source Modification [326 IAC 2-7-10.5(h)]

This document shall also become the approval to operate pursuant to 326 IAC 2-7-10.5(h) when, prior to start of operation, the following requirements are met:

- (a) The attached affidavit of construction shall be submitted to the Office of Air Quality (OAQ), Permit Administration & Development Section, verifying that the emission units were constructed as proposed in the application. The emissions units covered in the Significant Source Modification approval may begin operating on the date the affidavit of construction is postmarked or hand delivered to IDEM if constructed as proposed.
- (b) If actual construction of the emissions units differs from the construction proposed in the application, the source may not begin operation until the source modification has been revised pursuant to 326 IAC 2-7-11 or 326 IAC 2-7-12 and an Operation Permit Validation Letter is issued.
- (c) If construction is completed in phases; i.e., the entire construction is not done continuously, a separate affidavit must be submitted for each phase of construction. Any permit conditions associated with operation start up dates such as stack testing for New Source Performance Standards (NSPS) shall be applicable to each individual phase.
- (d) The Permittee shall receive an Operation Permit Validation Letter from the Chief of the Permit Administration & Development Section and attach it to this document.

However, in the event that the Title V application is being processed at the same time as this application, the following additional procedures shall be followed for obtaining the right to operate:

- (1) If the Title V draft permit has not gone on public notice, then the change/addition covered by the Significant Source Modification will be included in the Title V draft.
- (2) If the Title V permit has gone thru final EPA proposal and would be issued ahead of the Significant Source Modification, the Significant Source Modification will go thru a concurrent 45 day EPA review. Then the Significant Source Modification will be incorporated into the final Title V permit at the time of issuance.
- (3) If the Title V permit has not gone thru final EPA review and would be issued after the Significant Source Modification is issued, then the Modification would be added to the proposed Title V permit, and the Title V permit will be issued after EPA review.

SECTION C GENERAL OPERATION CONDITIONS

C.1 Certification [326 IAC 2-7-4(f)][326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]

- (a) Where specifically designated by this approval or required by an applicable requirement, any application form, report, or compliance certification submitted under this approval shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, on the attached Certification Form, with each submittal.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

C.2 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this approval, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMP) within ninety (90) days after issuance of this approval, including the following information on each facility:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions;
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If due to circumstances beyond its control, the PMP cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and the:

Hammond Department of Environmental Management
Air Pollution Control Division
5925 Calumet Avenue – Room 304
Hammond, Indiana 46320

- (b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that failure to implement the Preventive Maintenance Plan does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) PMP's shall be submitted to IDEM, OAQ and HDEM upon request and shall be subject to review and approval by IDEM, OAQ or HDEM. IDEM, OAQ or HDEM may require the Permittee to revise its Preventive Maintenance Plan whenever lack of proper maintenance causes or contributes to any violation.

C.3 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

(a) The Permittee must comply with the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this approval.

(b) Any application requesting an amendment or modification of this approval shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and the:

Hammond Department of Environmental Management
Air Pollution Control Division
5925 Calumet Avenue – Room 304
Hammond, Indiana 46320

Any such application should be certified by the “responsible official” as defined by 326 IAC 2-7-1(34) only if a certification is required by the terms of the applicable rule.

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

C.4 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), visible emissions shall meet the following, unless otherwise stated in this approval:

(a) Opacity shall not exceed an average of twenty percent (20%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute non-overlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.5 Operation of Equipment [326 IAC 2-7-6(6)]

Except as otherwise provided in this approval, all air pollution control equipment listed in this approval and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

C.6 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted by using ambient air quality modeling pursuant to 326 IAC 1-7-4.

Testing Requirements [326 IAC 2-7-6(1)]

C.7 Performance Testing [326 IAC 3-6][326 IAC 2-1.1-11]

- (a) Compliance testing on new emission units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this approval, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this approval, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and the:

Hammond Department of Environmental Management
Air Pollution Control Division
5925 Calumet Avenue – Room 304
Hammond, Indiana 46320

no later than thirty-five (35) days prior to the intended test date. The Permittee shall submit a notice of the actual test date to the above address so that it is received at least two weeks prior to the test date.

- (b) All test reports must be received by IDEM, OAQ and HDEM within forty-five (45) days after the completion of the testing. An extension may be granted by the IDEM, OAQ or HDEM if the source submits to IDEM, OAQ or HDEM a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

The documentation submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]

C.8 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

Compliance with applicable requirements shall be documented as required by this approval. All monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of approval issuance. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and the:

Hammond Department of Environmental Management
Air Pollution Control Division
5925 Calumet Avenue – Room 304
Hammond, Indiana 46320

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

C.9 Pressure Gauge Specifications

Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ($\pm 2\%$) of full scale reading.

Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]

C.10 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 2-7-5][326 IAC 2-7-6] [326 IAC 1-6]

- (a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. This compliance monitoring plan is comprised of:
- (1) This condition;
 - (2) The Compliance Determination Requirements in Section D of this approval;
 - (3) The Compliance Monitoring Requirements in Section D of this approval;
 - (4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this approval; and
 - (5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this approval. CRP's shall be submitted to IDEM, OAQ or HDEM upon request and shall be subject to review and approval by IDEM, OAQ or HDEM. The CRP shall be prepared within ninety (90) days after issuance of this approval by the Permittee and maintained on site, and is comprised of :
 - (A) Response steps that will be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this approval; and
 - (B) A time schedule for taking such response steps including a schedule for devising additional response steps for situations that may not have been predicted.
- (b) For each compliance monitoring condition of this approval, appropriate response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to perform the actions detailed in the compliance monitoring conditions or failure to take the response steps within the time prescribed in the Compliance Response Plan, shall constitute a violation of the approval unless taking the response steps set forth in the Compliance Response Plan would be unreasonable.

- (c) After investigating the reason for the excursion, the Permittee is excused from taking further response steps for any of the following reasons:
 - (1) The monitoring equipment malfunctioned, giving a false reading. This shall be an excuse from taking further response steps providing that prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the approval conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the approval, and such request has not been denied or;
 - (3) An automatic measurement was taken when the process was not operating; or
 - (4) The process has already returned to operating within "normal" parameters and no response steps are required.
- (d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

C.11 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this approval exceed the level specified in any condition of this approval, the Permittee shall take appropriate corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. IDEM, OAQ shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM, OAQ within thirty (30) days of receipt of the notice of deficiency. IDEM, OAQ reserves the authority to use enforcement activities to resolve noncompliant stack tests.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline. Failure of the second test to demonstrate compliance with the appropriate approval conditions may be grounds for immediate revocation of the approval to operate the affected facility.

The documents submitted pursuant to this condition do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

C.12 Monitoring Data Availability [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)]

- (a) With the exception of performance tests conducted in accordance with Section C- Performance Testing, all observations, sampling, maintenance procedures, and record keeping, required as a condition of this approval shall be performed at all times the equipment is operating at normal representative conditions.
- (b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this approval is not operating, the Permittee shall either record the fact that the equipment is shut down

or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this approval.

- (c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.
- (d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.
- (e) At its discretion, IDEM or HDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.
- (f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements stated in (a) above.

C.13 General Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-6]

- (a) Records of all required monitoring data and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years and shall be available upon the request of an IDEM, OAQ or HDEM representative. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner or HDEM makes a written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner or HDEM within a reasonable time.
- (b) Records of required monitoring information shall include, where applicable:
 - (1) The date, place, and time of sampling or measurements;
 - (2) The dates analyses were performed;
 - (3) The company or entity performing the analyses;
 - (4) The analytic techniques or methods used;
 - (5) The results of such analyses; and
 - (6) The operating conditions existing at the time of sampling or measurement.
- (c) Support information shall include, where applicable:
 - (1) Copies of all reports required by this approval;
 - (2) All original strip chart recordings for continuous monitoring instrumentation;
 - (3) All calibration and maintenance records;
 - (4) Records of preventive maintenance shall be sufficient to demonstrate that failure to implement the Preventive Maintenance Plan did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited

to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C - Compliance Monitoring Plan - Failure to take Response Steps, of this approval, and whether a deviation from an approval condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.

- (d) All record keeping requirements not already legally required shall be implemented within ninety (90) days of approval issuance.

C.14 General Reporting Requirements [326 IAC 2-7-5(3)(C)]

- (a) The reports required by conditions in Section D of this approval shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and the:

Hammond Department of Environmental Management
Air Pollution Control Division
5925 Calumet Avenue – Room 304
Hammond, Indiana 46320

- (b) Unless otherwise specified in this approval, any notice, report, or other submission required by this approval shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ and HDEM on or before the date it is due.
- (c) Unless otherwise specified in this approval, any quarterly or semi-annual report shall be submitted within thirty (30) days of the end of the reporting period. The reports do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (d) The first report shall cover the period commencing on the date of issuance of this approval and ending on the last day of the reporting period.

SECTION D.1

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Grind Expansion Project (Grind and Feedhouse Area)

- (a) Gluten Ring Dryer, identified as 202-01-G, with a heat input capacity of 40 MMBtu/hr. Gluten is fed to a low NOx natural gas ring dryer to decrease the moisture content. Particulate emissions are controlled by a wet scrubber CE202-01-G which exhausts to stack S202-01-G.
- (b) Fluid Bed Germ Dryer, identified as 203-01-G, with a heat input capacity of 50 MMBtu/hr. Corn germ is fed to a low NOx natural gas fluid bed dryer to decrease the moisture content. Particulates are controlled by a cyclone CE203-01-G which exhausts to stack S203-01-G.
- (c) Hammermill Aspiration Dust Collector #1, identified as 201-01-G, with a maximum design rate of 40,000 lbs/hr using a dust collector CE201-01-G for particulate control and exhausting to stack S201-01-G.
- (d) Hammermill Aspiration Dust Collector #2, identified as 201-02-G, with a maximum design rate of 40,000 lbs/hr using a dust collector CE201-02-G for particulate control and exhausting to stack S201-02-G.
- (e) Loose Feed Bin Vent, identified as 201-03-G, with a maximum rate of 90,000 lbs/hr using a bin vent CE201-03-G for particulate control and exhausting to stack S201-03-G.
- (f) Pellet Cooler Exhaust Cyclone #1, identified as 201-04-G, with a maximum rate of 60,000 lbs/hr using a cyclone CE201-04-G for particulate control and exhausting to stack S201-04-G.
- (g) Pellet Cooler Exhaust Cyclone #2, identified as 201-05-G, with a maximum rate of 60,000 lbs/hr using a cyclone CE201-05-G for particulate control and exhausting to stack S201-05-G.
- (h) Germ Silo Filter, identified as 200-01-G, with a maximum rate of 30,000 lbs/hr using a dust collector CE200-01-G for particulate control and exhausting to stack S200-01-G.
- (i) Gluten Silo Filter, identified as 200-02-G, with a maximum rate of 21,000 lbs/hr using a dust collector CE200-02-G for particulate control and exhausting to stack S200-02-G.
- (j) Loose Feed Silo Filter, identified as 200-03-G, with a maximum design rate of 11,000 lbs/hr using a dust collector CE200-03-G for particulate control and exhausting to stack S200-03-G.
- (k) Pellet Silo #1 Filter, identified as 200-04-G, with a maximum rate of 80,000 lbs/hr using a dust collector CE200-04-G for particulate control and exhausting to stack S200-04-G.
- (l) Pellet Silo #2 Filter, identified as 200-05-G, with a maximum rate of 80,000 lbs/hr using a dust collector CE200-05-G for particulate control and exhausting to stack S200-05-G.
- (m) Loadout Dust Collector, identified as 200-06-G, with a maximum design rate of 420,000 lbs/hr using a dust collector CE200-06-G for particulate control and exhausting to stack S200-06-G.
- (n) Central Vacuum Pelletizing, identified as 201-06-G, with a maximum design rate of 100 lbs/hr using a dust collector CE201-06-G for particulate control and exhausting to stack S201-06-G.
- (o) Central Vacuum Loadout, identified as 200-07-G, with a maximum design rate of 100 lbs/hr using a dust collector CE200-07-G for particulate control and exhausting to stack S200-07-G.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 Particulate Matter less than ten (10) microns in diameter (PM10) [326 IAC 6-1-2(h)]

Pursuant to 326 IAC 6-1-2(h) (Non-attainment Area Particulate Emissions), emissions of particulate matter less than ten microns in diameter (PM10) from the following new units to be added to the Grind and Feedhouse Area shall not exceed the following limitations:

	Unit ID	Unit Description	PM10 (gr/dscf)	PM10 (lbs/hr)
(a)	202-01-G	New Gluten Ring Dryer	0.015	2.98
(b)	203-01-G	Fluid Bed Germ Dryer	0.015	4.91
(c)	201-01-G	Hammermill Aspiration DC #1	0.005	0.15
(d)	201-02-G	Hammermill Aspiration DC #2	0.005	0.15
(e)	201-03-G	Loose Feed Bin Vent	0.005	0.003
(f)	201-04-G	Pellet Cooler Exhaust Cyclone #1	0.015	1.66
(g)	201-05-G	Pellet Cooler Exhaust Cyclone #2	0.015	1.66
(h)	200-01-G	Germ Silo Filter	0.005	0.05
(i)	200-02-G	Gluten Silo Filter	0.005	0.05
(j)	200-03-G	Loose Feed Silo Filter	0.005	0.02
(k)	200-04-G	Pellet Silo #1 Filter	0.005	0.003
(l)	200-05-G	Pellet Silo #2 Filter	0.005	0.003
(m)	200-06-G	Loadout Dust Collector	0.005	1.21
(n)	201-06-G	Central Vacuum Pelletizing	0.005	0.02
(o)	200-07-G	Central Vacuum Loadout	0.005	0.02

D.1.2 Preventive Maintenance Plan (PMP) [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section C.2 - Preventive Maintenance Plan, of this permit, is required for all Grind and Feedhouse Area facilities and their control devices.

D.1.3 Continuous Compliance Plan (CCP) [326 IAC 2-7-5(13)] [326 IAC 6-1-10.1(l)]

The Continuous Compliance Plan, required for this source by 326 IAC 6-1-10.1(l) shall be updated to include the emission units and control equipment in this D section.

Compliance Determination Requirements

D.1.4 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

(a) This modification is being incorporated into the forthcoming Title V Permit. Testing on the following units from this approval shall be performed in accordance with the Title V Permit Compliance Determination Requirements of Section D.3 - Grind and Feedhouse Area, and Section C of the Title V Permit - Performance Testing.

- (1) New Gluten Ring Dryer
- (2) Fluid Bed Germ Dryer

(b) The Permittee is not required to test any other Grind and Feedhouse Area facility by this permit. However, if testing is required, compliance with the (PM10) limit specified in Condition D.1.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

Compliance Monitoring Requirements

D.1.5 Particulate Matter (PM)

In order to comply with D.1.1, the control devices for PM control shall be in operation and control emissions from each facility at all times that the facility is in operation.

D.1.6 Visible Emissions Notations

- (a) Daily visible emission notations of each Grind and Feedhouse facility stack exhaust shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

D.1.7 Parametric Monitoring

The Permittee shall record the total static pressure drop across the control device used in conjunction with each Grind and Feedhouse Area facility at least once daily when the associated facility is in operation and venting to the atmosphere. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drops across the control devices shall be maintained within the ranges that zero visible emissions have been noted or ranges established during the latest stack test. The Compliance Response Plans for these units shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above-mentioned range for any one reading. Failure to take response steps in accordance with Section C.10 - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

The instrument used for determining the pressure shall comply with Section C.9 - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM-OAQ and HDEM, and shall be calibrated at least once every twelve (12) months.

D.1.8 Baghouse Inspections

An inspection shall be performed every six (6) months of all bags that vent to the atmosphere. All defective bags shall be replaced.

D.1.9 Broken or Failed Bag Detection

In the event that bag failure has been observed:

- (a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the

Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

- (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced.

D.1.10 Scrubber and Cyclone Inspections

An inspection shall be performed every six (6) months of all scrubbers and cyclones that vent to the atmosphere.

D.1.11 Scrubber or Cyclone Failure Detection

In the event that a scrubber or cyclone failure has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

D.1.12 Thermal Oxidizer for Rotary Feed and Fiber Dryers

- (a) The Thermal Oxidizer in the Grind and Feedhouse Area shall be in operation and control VOC from the Rotary Feed Dryer and Fiber Dryer at all times that the dryers are in operation.
- (b) The Compliance Response Plan for the Thermal Oxidizer shall contain troubleshooting contingency and response steps for when the temperature reading is outside the normal range for any one reading. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.13 Record Keeping Requirements

- (a) To document compliance with Condition D.1.6, the Permittee shall maintain records of daily visible emission notations of the Grind and Feedhouse Area Facility stack exhausts.
- (b) To document compliance with Condition D.1.7, the Permittee shall maintain daily records of the following operational parameters during normal operation when venting to the atmosphere:
 - (A) Inlet and outlet differential static pressure; and
 - (B) Cleaning cycle operation.
- (c) To document compliance with Condition D.1.6 and D.1.7, the Permittee shall maintain records of the results of the inspections.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION
and
HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
PART 70 SOURCE MODIFICATION
CERTIFICATION**

Source Name:
Source Address:
Mailing Address:
Source Modification No.: 089-14389-00203

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this approval.

Please check what document is being certified:

- ☐ Test Result (specify)
- ☐ Report (specify)
- ☐ Notification (specify)
- ☐ Other (specify)

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:
Title/Position:
Date: